

## Likelihood of exposure for an individual performing in vitro work

**Laboratory Procedure:** \_\_\_\_\_

**Likelihood of Inhalation Exposure:**

**Values:**

(Inhalation + Quality of Material) / 2 =	
--	--

**Likelihood of Percutaneous Exposure:**

(Percutaneous + Quality of Material) / 2 =	
--	--

**Likelihood of Direct Contact Exposure:**

(Contact + Quality of Material) / 2 =	
---------------------------------------	--

**Likelihood of Ingestion Exposure:**

(Ingestion + Quality of Material) / 2 =	
---	--

**Quality and Quantity of Infectious Material**

(QL + QN) / 2 =		
What type of material will be used in this procedure (or in this assessment)? Purified biological materials = 4, Diagnostic samples (e.g. blood or tissue) = 2 or Environmental samples (e.g. soil or water) = 1	QL =	

What is the volume of material to be used in this procedure (or in this assessment)? Over 10 liters = 4, up to 10 liters = 2 or milliter volume = 1	QN =	
---	------	--

## Inhalation

(IE 1 + IE 2 + IM 1 + IM 2)/4 =		
What is the potential for aerosols to be generated as a byproduct of this procedure (e.g. pipetting, sonication, ect)? A notable potential for generation of aerosols = 4, a limited quantity of aerosols may be produced = 1, no procedures in use which may generate an aerosol = 0	IE 1 =	
What is the potential for an accidental release of agent? Agent used in procedure = 4, agent in storage and not used = 1	IE 2 =	
Is primary containment used for all work with the agent? No primary containment exists = 4, primary containment exists but is used only periodically or improperly, primary containment is always used and devices are validated/certified and well maintained	IM 1 =	
What type of respiratory protection is used? No respiratory protection exists or is used = 4, Respirators exist but there is no formal respiratory protection program = 3, Respiratory protection is used and there is a formal respiratory protection program =	IM 2 =	

## Percutaneous

(PE 1 + PE 2 + PM 1 + PM 2)/4 =		
What is the volume of sharps used in this procedure? A large volume of sharps in use = 4, a small volume of sharps = 3, there are no sharps in use in this procedure = 0	PE 1 =	
What is the volume of breakable material or items with sharp edges in this laboratory? A large amount of breakable material = 4, a small amount of breakable material = 3, there is not breakable material or items with sharp edges in this laboratory = 0	PE 2 =	
How are sharps handled? Sharps are never handled directly by hand (mechanical systems are always used) = 1, Sharps are rarely handled by hand = 2, sharps are handled by hand = 4	PM 1 =	
What type of gloves are in use while handling sharps? No gloves = 4, a single pair of latex or nitrile type gloves = 3, two pairs of latex or nitrile type gloves = 2, heavy duty gloves like leather or thick rubber = 1	PM 2 =	

## Contact

$(CE\ 1 + CE\ 2 + CE3 + CM1 + CM2 + CM3 + CM4 + CM5)/8 =$		
What is the potential and extent of a splash or spill in the laboratory? There is a potential for a high pressure sustained release of infectious material = 4, there is a potential for a spill or splash = 2, material does not exist in a spillable form in the laboratory = 0	CE 1 =	
How easy are the surfaces in the laboratory to decontaminate? Surfaces are very difficult to decontaminate (wood, grout, etc) = 4, surfaces may have edges that are difficult to decontaminate = 2, all surfaces can be decontaminated = 0	CE 2 =	
How is contaminated waste stored in the laboratory? No standard contaminated waste storage containers exist and waste is not stored to best practices = 4, contaminated waste stored properly and handled according to best practices = 1, there is no contaminated waste in laboratory = 0	CE 3 =	
How is material handled? Material never handled directly by hand = 0, material is rarely handled by hand = 2, material is handled by hand = 4	CM 1 =	
What type of gloves are in use? No gloves = 4, a single pair of latex or nitrile type gloves = 1, two pairs of latex or nitrile type gloves = 0	CM 2 =	
What type of laboratory clothing is worn? No gowns or protective covering worn = 4, gowns or lab coats are worn over street cloths = 1, personnel wear dedicated laboratory clothes = 0	CM 3 =	
What type of protective eyewear is used in this laboratory? No eyewear protection used = 4, personnel wear safety glasses = 3, personnel wear goggles or a face shield = 1, personnel wear goggles and a face shield = 0	CM 4 =	
What type of shoes are worn in the laboratory? Persons can wear open toed shoes in the laboratory = 4, persons must wear closed toed shoes = 3, solid shoes are worn = 2, shoe covers are worn over solid shoes = 1, laboratory specific solid shoes are worn =	CM 5 =	

## Ingestion

$((GI\ 1 + GI\ 2 + GM\ 1 + GM2 + GM3)/5) =$		
What is the potential and extent of a splash or spill in the laboratory? There is a potential for a high pressure sustained release of infectious material = 4, there is a potential for a spill or splash = 2, material does not exist in a spillable form in the laboratory = 0	GI 1 =	
What is the potential for an accidental release of agent? Agent used in procedure = 4, agent in storage and not used = 1	GI 2 =	
How is material handled? Material never handled directly by hand = 0, material is rarely handled by hand = 2, material is handled by hand = 4	GM 1 =	
What type of gloves are in use? No gloves = 4, a single pair of latex or nitrile type gloves = 1, two pairs of latex or nitrile type gloves = 0	GM 2 =	
Are face shield or masks worn? Personnel do not wear any face protection = 4, surgical masks are used to protect mouth/nose from contact = 1, face shields are always used to protect the mouth/nose from contact = 0	GM 3 =	